Bruhat Bangalore Mahanagara Palike
Excecutive Engineer R.R.Nagara Division

Name of Work: Remodelling of Seggregation point ,R.C.C drain and Development of water body at J.P park in Ward No-17

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 200-8. **Clearing and grubbing** road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications.(P.No-132 ,I No-18.11) BR: 6+8.1.								
	For Water Body	1	250	4		1000.00	Sqm	6.48 ✓	6480.00
2	KSRB 2-2.1 : **Earthwork excavation for foundation** of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.(P.No-5 ,I No-2.3)								
	For Footing	6	2.00	2.00	2.00	48.00			
	For SSm	2	15.24	1.05	0.60	19.20			
		2	12.20	1.05	0.60	15.37			
	For Drain	1	50.00	1.05	0.85	44.63		✓	
						127.20	**Cum**	192.24	**24,452.81**
3	KSRB 4-1.3 : Providing and laying in position plain cement **concrete of mix1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.No-12 ,I No-4.3)								
	For Footing	6	2.00	2.00	0.15	3.60			
	For SSm	2	15.24	1.05	0.15	4.80		BR: 4695=70	
		2	12.20	1.05	0.15	3.84		+81.	
	For Flooring	1	14.60	11.80	0.15	25.84			
	For Drain	1	50.00	1.05	0.10	5.25		5070.6 .	
						43.34	**Cum**	5074.92	**219924.70**
									219759.8
4	KSRB 5.2-3 : Providing and constructing granite / trap / basalt **size stone masonry** in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. (P.No-23 ,I No-5.6)								
	For SSm	2	15.24	0.90	0.60	16.46			
		2	12.20	0.90	0.60	13.18			
	For SSm	2	15.24	0.60	0.60	10.97			
		2	12.20	0.60	0.60	8.78		✓	
						49.39	**Cum**	**4135.32**	**204251.73**

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
5	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. (P.No-13 ,I No-4.10)								
	For Footing	6	1.80	1.80	0.45	8.75			
	For Coloumn Up to Plinth	6	0.23	0.45	2.00	1.24			
	For Plinth	2	15.24	0.23	0.45	3.15			
		2	11.80	0.23	0.45	2.44			
	For Flooring	1	14.60	11.80	0.15	25.84			
	For Lintel beam	2	15.24	0.23	0.35	2.45			
		2	11.80	0.23	0.35	1.90			
						45.78	**Cum**	**6410.88**	**293507.52**
6	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete** of design mix M20 with OPC cement @ 320kgs, with 20mmand down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (P-13, I.No-4.11)								
	For Drain								
	For Base Slab	1	50.00	0.90	0.15	6.75			
	For Wal	2	50.0	0.15	0.75	11.25			
						18.00	**Cum**	**6198.12**	**111566.16**
7	KSRB 4.9.2 : **Providing T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (P.No-15 ,I No-4.31)								
	For Drain60kg/Cum		18.00			1.08			
	For Building					3.50			
						4.58	**MT**	**69805.80**	**319710.56**
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, I								
	For Footing	6	4.00	1.80	0.45	19.44			
	For Coloumn Up to Plinth	6	1.36		2.00	16.32			
	For Plinth	2	15.24		0.35	10.67			
		2	11.80		0.35	8.26			
	For Lintel beam 1st Level	2	15.24		0.35	10.67			
		2	15.24		0.23	7.01			

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
		1	11.80		0.35	4.13			
		1	11.80		0.23	2.71			
	For Coloumn Upto 2Level	6	1.36		6.00	48.96			
	For Lintel beam 2nd Level	2	15.24		0.35	10.67			
		2	15.23		0.23	7.01			
		2	11.80		0.35	8.26			
		2	11.80		0.23	5.43			
	For Drain	4	50.00		0.75	150.00			
						309.53	**Sqm**	**306.72**	**94,939.72**
9	Providing **granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.								
		1	50.0	0.90		**45.00**	**Sqm**	**794.88**	**35,769.60**
10	KSRB 5-9 : Providing **chamfering edges** to stone slab 2.5 cms. Wide as per specifications. (only chamfered length shall be recorded) (P.No-24 ,I No-5.22)								
	100/0.6=166Nos	166	50.0			**8300.00**	**m**	**32.40**	**268920.00**
11	KSRB 5-14 : Providing and constructing **precast concrete solid blocks** with compressive strength not less than 3.5 N/sq.mm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P.No-25 ,I No-5.27)								
	For Plinth	2	15.24		6.00	182.88			
		1	11.80		6.00	70.80			
		2	2.00		6.00	24.00			
						277.68	**Sqm**	**1018.44**	**282800.42**
12	KSRB 15.3.2Providing **12mm thick cement plaster** in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
		2	15.24		6.00	182.88			
		1	11.80		6.00	70.80			
		2	2.00		6.00	24.00			
						277.68	**Sqm**	**166.42**	**46211.51**
13	KSRB15-3.9 : Providing **18mm thick cement plaster** in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No-110 ,I No-15.17)								
		2	15.24		6.00	182.88			
		1	11.80		6.00	70.80			
		2	2.00		6.00	24.00			
						277.68	**Sqm**	**199.28**	**55,336.07**

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
14	Fabricating, supplying & erecting **M.S. angular Truss** of span upto 10m. The bottom & top member is provided with 50x50x6mm double equal angles, welded back to back and in between top & bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing No.CBS/ SD/K-Mantap/9/MND/97. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification(P.No-41 ,I No-7.30) BR: 121+6-1.								
						10000.00	**Kgs**	**128.26**	**1282600.00**
15	KSRB 8.3-2 : Providing and laying to required line and slope roofing with **semi-corrugated (Trafford) asbestos cement sheet 6mm.** thick fixed with galvanised iron J or L hooks, bolts and nuts 8mm. dia C.I plain and bitumen washers, over the existing purlins, rafters and trusses including cost of materials, labour, complete as per specifications.(P.No-46 ,I No-8.6)								
		2	15.00	8.00		**240.00**	**Sqm**	**408.1**	**97,944.00**
16	**Wire Mesh50mmX50mm(P.No-XXVI ,Code No-0797)**								
		2	15.24	0.60		18.29	BR 32.2+6-1.		
		2	12.20	0.60		14.64			
						32.93	**Sqm**	**341.32**	**11,238.98**
17	KSRB 7.1 : Providing and fixing in position **collapsible steel shutters** with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10 cms. c to c applying a priming coat of red lead paint. cost of materials, labour, HOM of machinery complete as per specifications..(P.No-31 ,I No-7.1)								
		1	7.80	5.00		**39.00**	**Sqm**	**4465.78**	**174165.42**
18	KSRB 2.3 : Filling **available excavated earth** (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.								
	For lake Portion	1	60.00	25.00		**1500.0**	**Cum**	**129.600**	**194400.00**
19	KSRRB M300-14. **Excavation for roadwork** in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301 (P.No-139,I No-19.14) I 19.14 BR: 45.00								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50	1.50	1575.00			
						1575.00	**Cum**	48.6 **158.11**	**249026.00** +6,345.00
20	KSRRB 300-58. **Compaction** of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (P.No-145,I No-19.64)								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50		1050.00			
						1050.00	**Cum**	**4.86**	**5103.00**

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
21	KSRRB M300-53. Construction of **embankment** with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305 (P.No-147,I No-19.60)								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50	2.80	2940.00	BR:	288+8.1	
	Space For Vehicle	1	20.00	25.00	2.80	1400.00		✓	
						4340.00	**Cum**	**311.04**	**1349913.60**
22	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications.								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50	0.15	157.50		✓	
						157.50	**Cum**	**1,622.16**	**255490.00**
23	KSRRB M400-17 : Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications .(P.No-154, I No-20.18)								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50	0.20	210.00		✓	
						210.00	**Cum**	**1,713.96**	**359932.00**
24	KSRRB 500-6.Providing and applying **primer coat** with S.S bitumen emulsion on prepared surface of granular base such as WBM,WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MoRT&H Specification No. 502.(P.No-157, I No-21.6)								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50		1050.00		✓	
						1050.00	**sqm**	**32.40**	**34020.00**
25	KSRRB 500-9. Providing and applying **tack coat** on granular base such as WBM and WMM surfaces with hot bitumen primed at 4 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. (P.No-157, I No-21.9)								80/100grade
	For BM								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50		1050.00			
	For SDBC								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50		1050.00		✓	
						2100.00	**sqm**	**15.12**	**31752.00**

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Bruhat Bangalore Mahanagara Palike

(14)

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
26	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with using crushed coarse aggregates as per design mix formula for base/binding course including lpading of aggregates with F.E loader hot mixing of stone aggregates and bitumen in hot mix plant trnsporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade ,rolling by power roller to achieve the desired density ,but excluding cost of primer/tack coat including lead,lift and cost of all materials, labour, HOM of machineries complete as per Specifications. (P.No-158,I No-21.17.4) using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm) with 3.3% VG-30 Bitumen. 5.21.11.6. BR: 5735								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50	0.05	52.50		6194.00	325185
						52.50	Cum	6296.67	330575.00
27	KSRRB M500-18. Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 508 complete in all respects complete as per specifications.do - using 40-60 TPH capacity H.M.P. with mechanical paver grading II (25-30mm) with 5% CRMB-55 gradedo - using 40-60 TPH capacity H.M.P. with mechanical paver grading II (25-30mm) with 5% CRMB-55 grade(P.No-160,I No-21.21.6) 21.21.6. BR: 9023								
	From Mohankumar Nagar Rd to Seggregation Point	1	100.00	10.50	0.03	26.25		9745.00	255806
	Total					26.25	cum	9847.71	258502.00
								641,7800.9	6,598,532.81
28								TP and Escalation	659,853.28
								192534.0 PMC & DPR COST	197,956.00
29	Miscellaneous							Sub Total	7,456,342.09
								6,22,5266.87	43,657.91
	GRAND TOTAL								7,500,000.00

Assistant Engineer
BBMP Bangalore

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ಯಶವಂತಪುರ ಉಪವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Executive Engineer,
BBMP Bangalore

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ರೂ. 75,00000=00 (Seventy five lakh only)

TECHNICAL SANCTION
Rs: 75,00,000=00 (Rs. Seventy five Lakhs Only) is accorded
under the head: P-3089 (14-15 CMC - TMC)
By CE(R.R.N.): SL NO - 54
Registered as CE (R.R.N.) Vide 2NC-14-15 subject
to conditions contained in enclosed memo
No: TS/64/16-17 Date: 27/5/16
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CE (R.R.N.)

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